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Gln Asp Asp Gly Ser Glu Cys Tyr Val Phe Arg Lys Trp Gly Arg Val 545 ggg agt gag aaa att gga ggg caa aaa ctg gag gag atg tca aaa act 1798 Gly Ser Glu Lys Ile Gly Gly Gln Lys Leu Glu Glu Met Ser Lys Thr 550 gag gca atc aag gaa ttc aaa aga tta ttt ctt gag aag act gga aac 1846 Glu Ala Ile Lys Glu Phe Lys Arg Leu Phe Leu Glu Lys Thr Gly Asn 565 tca tgg gaa gct tgg gaa tgt aaa acc aat ttt cgg aag cag cct ggg 1894 Ser Trp Glu Ala Trp Glu Cys Lys Thr Asn Phe Arg Lys Gln Pro Gly 580 aga ttt tac cca ctt gat gtt gat tat ggt gtt aag aaa gca cca aaa 1942 Arg Phe Tyr Pro Leu Asp Val Asp Tyr Gly Val Lys Lys Ala Pro Lys 600 cgg aaa gat atc agt gaa atg aaa agt tct ctt gct cct caa ttg cta 1990 Arg Lys Asp Ile Ser Glu Met Lys Ser Ser Leu Ala Pro Gln Leu Leu 615 gaa ctc atg aag atg ctt ttc aat gtg gag aca tat aga gct gct atg 620 atg gaa ttt gaa att aat atg tca gaa atg cct ctt ggg aag cta agc 2038 Met Glu Phe Glu Ile Asn Met Ser Glu Met Pro Leu Gly Lys Leu Ser 655 aag gaa aat atc gag aaa gga ttt gaa gca tta act gag gad act cag aat 2134		Asp	ctg Leu	gca Ala	cta Leu	ggt Gly	Val	aac Asn	agc Ser	tac Tyr	tat Tyr	Val	ctc	cag Gln	atc Ile	att Ile	Glu	1702
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Arg Asn Lys Gly Gln Leu Val Asp Pro Arg Gly Ser Asn Thr Ser Ser

220

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215

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Gly Asn Ser Trp Glu Ala Trp Glu Cys Lys Thr Asn Phe Arg Lys Gln

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Pro Leu Glu Ser Glu Phe Val Lys Trp Arg Asp Asp Val Val Val Pro
915 920 925

Cvs Clv Lys Pro Val Pro Ser Ser Ile Arg Ser Ser Clv Leu Met Tyr

Cys Gly Lys Pro Val Pro Ser Ser Ile Arg Ser Ser Glu Leu Met Tyr 930 935 940 Asn Glu Tyr Ile Val Tyr Asn Thr Ser Gln Val Lys Met Gln Phe Leu 945 950 955 960

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Asn Gly Asp Thr Cys Thr Asp Val Thr Lys Leu Glu Gly Met Ser Tyr 85 90 95

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Lys Val Asn Tyr His Val Leu Gln Val Gly Asp Glu Ile Tyr Asp Ala 180 185 190

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Ile Gln Val Leu Glu Ser Asp Ala Gly Gly Ser Phe Met Val Tyr Asn 210 215 220

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Glu Thr Arg Ile Ala Gln Phe Ile Ser Leu Ile Cys Asn Ile Ser Met 305 310 315 320

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His Gly Glu Thr Glu Arg Phe Gln Lys Phe Ala Ser Thr Arg Asn Arg 485 490 495

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Ser Gln Gly Leu Arg Ile Ala Pro Pro Glu Ala Pro Val Thr Gly Tyr 515 520 525

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Asp Ala Asn Asn Leu Pro Lys Gly Lys Leu Arg Ser Lys Gly Val Gly 580 585 590

Gln Thr Ala Pro Asn Met Val Glu Ser Lys Val Ala Asp Asp Gly Val 595 600 605

Val Val Pro Leu Gly Glu Pro Lys Gln Glu Pro Ser Lys Arg Gly Gly 610 620

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Arg 225	Ala	Ile	Glu	Ile	Phe 230	Thr	Asn	Lys	Phe	Asn 235	Asp	Lys	Thr	Lys	Asn 240
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His	Tyr	Gln	Gln 420	Leu	Asn	Cys	Gly	Leu 425	Thr	Pro	Val	Gly	Asn 430		Ser
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Gly Lys Thr Ala Pro Asn Pro Ser Glu Ala Gln Thr Leu Glu Asp Gly 580 585 590

Val Val Val Pro Leu Gly Lys Pro Val Glu Arg Ser Cys Ser Lys Gly 595 600 605

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                      Met Ala Ala Pro Pro Lys Ala Trp Lys Ala Glu
tat gcc aag tct ggg cgg gcc tcg tgc aag tca tgc cgg tcc cct atc
                                                                   161
Tyr Ala Lys Ser Gly Arg Ala Ser Cys Lys Ser Cys Arg Ser Pro Ile
                                                                   209
gcc aag gac cag ctc cgt ctt ggc aag atg gtt cag gcg tca cag ttc
Ala Lys Asp Gln Leu Arg Leu Gly Lys Met Val Gln Ala Ser Gln Phe
gac ggc ttc atg ccg atg tgg aac cat gcc agg tgc atc ttc agc aag
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Asp Gly Phe Met Pro Met Trp Asn His Ala Arg Cys Ile Phe Ser Lys
                                                                   305
aag aac cag ata aaa tcc gtt gac gat gtt gaa ggg ata gat gca ctt
Lys Asn Gln Ile Lys Ser Val Asp Asp Val Glu Gly Ile Asp Ala Leu
                                                                   353
aga tgg gat gat caa gag aag ata cga aac tac gtt ggg agt gcc tca
Arg Trp Asp Asp Gln Glu Lys Ile Arg Asn Tyr Val Gly Ser Ala Ser
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gct ggt aca agt tct aca gct gct cct cct gag aaa tgt aca att gag
Ala Gly Thr Ser Ser Thr Ala Ala Pro Pro Glu Lys Cys Thr Ile Glu
att gct cca tct gcc cgt act tca tgt aga cga tgc agt gaa aag att
                                                                   449
Ile Ala Pro Ser Ala Arg Thr Ser Cys Arg Arg Cys Ser Glu Lys Ile
                             115
aca aaa gga tcg gtc cgt ctt tca gct aag ctt gag agt gaa ggt ccc
                                                                   497
Thr Lys Gly Ser Val Arg Leu Ser Ala Lys Leu Glu Ser Glu Gly Pro
                        130
    125
aag ggt ata cca tgg tat cat gcc aac tgt ttc ttt gag gta tcc ccg
                                                                   545
Lys Gly Ile Pro Trp Tyr His Ala Asn Cys Phe Phe Glu Val Ser Pro
140
                    145
                                                                   593
tct gca act gtt gag aag ttc tca ggc tgg gat act ttg tcc gat gag
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Ser Ala Thr Val Glu Lys Phe Ser Gly Trp Asp Thr Leu Ser Asp Glu

						gat Asp										641
_						aag Lys	_	_		_	_		_		_	689
_				_		tta Leu 210	_	_	_			_			gtg Val	737
						gta Val										785
						ctt Leu										833
		J	J J		_	act Thr		_	_	_	_	_			-	881
						cag Gln										929
						gga Gly 290										977
	Val					atg Met			Tyr							1025
						tgg Trp									Glu	1073
						aag Lys										1121
						ttc Phe										1169
						tca Ser 370						Ser				1217
cag Gln 380	Arg	aca Thr	tca Ser	ttg Leu	ctg Leu 385	tct Ser	tct Ser	aaa Lys	GJÀ aàa	ttg Leu 390	gat Asp	aaa Lys	tta Leu	agg Arg	ttt Phe 395	1265
						aaa Lys										1313
						aac Asn										1361
gat	tgt	tta	att	gca	tgt	ggt	gag	ctc	gac	aat	gaa	aat	gct	gaa	gtc	1409

Asp	Cys	Leu 430	Ile	Ala	Cys	Gly	Glu 435	Leu	Asp	Asn	Glu	Asn 440	Ala	Glu	Val	
agg Arg	aaa Lys 445	gca Ala	agg Arg	agg Arg	ctg Leu	aag Lys 450	ata Ile	cca Pro	att Ile	gta Val	agg Arg 455	gag Glu	ggt Gly	tac Tyr	att Ile	1457
				aaa Lys												1505
cta Leu	gag Glu	aat Asn	gcc Ala	tta Leu 480	gag Glu	tcc Ser	tca Ser	aaa Lys	ggc Gly 485	agt Ser	act Thr	gtc Val	act. Thr	gtt Val 490	aaa Lys	1553
				agt Ser												1601
				gaa Glu												1649
				gca Ala												1697
				gat Asp												1745
				gag Glu 560						Lys						1793
				atc												1841
gga Gly	aac Asn	tca Ser 590	Trp	gaa Glu	gct Ala	tgg Trp	gaa Glu 595	tgt Cys	aaa Lys	acc Thr	aat Asn	ttt Phe 600	cgg Arg	aag Lys	cag Gln	1889
				tac Tyr												1937
cca Pro 620	Lys	cgg Arg	aaa Lys	gat Asp	atc Ile 625	agt Ser	gaa Glu	atg Met	aaa Lys	agt Ser 630	tct Ser	ctt Leu	gct Ala	cct Pro	caa Gln 635	1985
Leu	Leu	Glu	Leu	atg Met 640	Lys	Met	Leu	Phe	Asn 645	Val	Glu	Thr	Tyr	Arg 650	Ala	2033
gct Ala	atg Met	atg Met	gaa Glu 655	ttt Phe	gaa Glu	att Ile	aat Asn	atg Met 660	Ser	gaa Glu	atg Met	cct Pro	ctt Leu 665	Gly	aag Lys	2081
cta Leu	agc Ser	aag Lys 670	Glu	aat Asn	att Ile	gag Glu	aaa Lys 675	gga Gly	ttt Phe	gaa Glu	gca Ala	tta Leu 680	act Thr	gag Glu	ata Ile	2129
cag Gln	aat Asn 685	Leu	ttg Leu	aag Lys	gac Asp	acc Thr 690	gct Ala	gat Asp	caa Gln	gca Ala	ctg Leu 695	gct Ala	gtt Val	aga Arg	gaa Glu	2177

									- 2	21						
_			_	_		_		_						cct Pro	tct Ser 715	2225
													Ile	aaa Lys 730		2273
														ata Ile		2321
														atg Met		2369
														tac Tyr		2417
														aag Lys		2465
														gga Gly 810		2513
														atg Met		2561
														agt Ser		2609
														atg Met		2657
ggc Gly 860	aaa Lys	ggc Gly	ctc Leu	tac Tyr	ttt Phe 865	gca Ala	gat Asp	cta Leu	gta Val	agc Ser 870	aag Lys	agc Ser	gca Ala	caa Gln	tac Tyr 875	2705
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aaa Lys	cct Pro	cca Pro 910	aga Arg	Gly ggg	aag Lys	cat	tcg Ser 915	acc Thr	aag Lys	gga Gly	tta Leu	ggc Gly 920	aaa Lys	acc Thr	gtg Val	2849
cca Pro	ctg Leu 925	gag Glu	tca Ser	gag Glu	ttt Phe	gtg Val 930	aag Lys	tgg Trp	agg Arg	gat Asp	gat Asp 935	gtc Val	gta Val	gtt Val	ccc Pro	2897
														atg Met		2945
														ttc Phe 970		2993

3040 ctg aag gtg cgt ttc cat cac aag agg tagctgggag actaggcaag Leu Lys Val Arg Phe His His Lys Arg tagagttgga aggtagagaa gcagagttag gcgatgcctc ttttggtatt attagtaagc 3100 ctggcatgta tttatgggtg ctcgcgcttg atccattttg gtaagtgttg cttgggcatc 3160 agcgcgaata gcaccaatca cacactttta cctaatgacg ttttactgta ta <210> 11 <211> 980 <212> PRT <213> Zea mays <400> 11 Met Ala Ala Pro Pro Lys Ala Trp Lys Ala Glu Tyr Ala Lys Ser Gly Arg Ala Ser Cys Lys Ser Cys Arg Ser Pro Ile Ala Lys Asp Gln Leu Arg Leu Gly Lys Met Val Gln Ala Ser Gln Phe Asp Gly Phe Met Pro Met Trp Asn His Ala Arg Cys Ile Phe Ser Lys Lys Asn Gln Ile Lys Ser Val Asp Asp Val Glu Gly Ile Asp Ala Leu Arg Trp Asp Asp Gln Glu Lys Ile Arg Asn Tyr Val Gly Ser Ala Ser Ala Gly Thr Ser Ser Thr Ala Ala Pro Pro Glu Lys Cys Thr Ile Glu Ile Ala Pro Ser Ala 105 Arg Thr Ser Cys Arg Arg Cys Ser Glu Lys Ile Thr Lys Gly Ser Val 115 Arg Leu Ser Ala Lys Leu Glu Ser Glu Gly Pro Lys Gly Ile Pro Trp Tyr His Ala Asn Cys Phe Phe Glu Val Ser Pro Ser Ala Thr Val Glu 145 Lys Phe Ser Gly Trp Asp Thr Leu Ser Asp Glu Asp Lys Arg Thr Met 165 Leu Asp Leu Val Lys Lys Asp Val Gly Asn Asn Glu Gln Asn Lys Gly 185 190 Ser Lys Arg Lys Lys Ser Glu Asn Asp Ile Asp Ser Tyr Lys Ser Ala 200 Arg Leu Asp Glu Ser Thr Ser Glu Gly Thr Val Arg Asn Lys Gly Gln 220 Leu Val Asp Pro Arg Gly Ser Asn Thr Ser Ser Ala Asp Ile Gln Leu 235 225 Lys Leu Lys Glu Gln Ser Asp Thr Leu Trp Lys Leu Lys Asp Gly Leu

250

Lys Thr His Val Ser Ala Ala Glu Leu Arg Asp Met Leu Glu Ala Asn

260 265 270

Gly Gln Asp Thr Ser Gly Pro Glu Arg His Leu Leu Asp Arg Cys Ala 280 Asp Gly Met Ile Phe Gly Ala Leu Gly Pro Cys Pro Val Cys Ala Asn Gly Met Tyr Tyr Tyr Asn Gly Gln Tyr Gln Cys Ser Gly Asn Val Ser 310 315 Glu Trp Ser Lys Cys Thr Tyr Ser Ala Thr Glu Pro Val Arg Val Lys Lys Lys Trp Gln Ile Pro His Gly Thr Lys Asn Asp Tyr Leu Met Lys 345. Trp Phe Lys Ser Gln Lys Val Lys Lys Pro Glu Arg Val Leu Pro Pro 360 Met Ser Pro Glu Lys Ser Gly Ser Lys Ala Thr Gln Arg Thr Ser Leu 375 Leu Ser Ser Lys Gly Leu Asp Lys Leu Arg Phe Ser Val Val Gly Gln 395 390 Ser Lys Glu Ala Ala Asn Glu Trp Ile Glu Lys Leu Lys Leu Ala Gly 405 410 Ala Asn Phe Tyr Ala Arg Val Val Lys Asp Ile Asp Cys Leu Ile Ala 420 Cys Gly Glu Leu Asp Asn Glu Asn Ala Glu Val Arg Lys Ala Arg Arg 440 Leu Lys Ile Pro Ile Val Arg Glu Gly Tyr Ile Gly Glu Cys Val Lys 450 Lys Asn Lys Met Leu Pro Phe Asp Leu Tyr Lys Leu Glu Asn Ala Leu 475 470 Glu Ser Ser Lys Gly Ser Thr Val Thr Val Lys Val Lys Gly Arg Ser 490 Ala Val His Glu Ser Ser Gly Leu Gln Asp Thr Ala His Ile Leu Glu 505 Asp Gly Lys Ser Ile Tyr Asn Ala Thr Leu Asn Met Ser Asp Leu Ala 520 Leu Gly Val Asn Ser Tyr Tyr Val Leu Gln Ile Ile Glu Gln Asp Asp Gly Ser Glu Cys Tyr Val Phe Arg Lys Trp Gly Arg Val Gly Ser Glu 555 550 Lys Ile Gly Gly Gln Lys Leu Glu Glu Met Ser Lys Thr Glu Ala Ile Lys Glu Phe Lys Arg Leu Phe Leu Glu Lys Thr Gly Asn Ser Trp Glu Ala Trp Glu Cys Lys Thr Asn Phe Arg Lys Gln Pro Gly Arg Phe Tyr 600 Pro Leu Asp Val Asp Tyr Gly Val Lys Lys Ala Pro Lys Arg Lys Asp

•										•							
	Ile 625	Ser	Glu	Met	Lys	Ser 630	Ser	Leu	Ala	Pro	Gln 635	Leu	Leu	Glu	Leu	Met 640	
	Lys	Met	Leu	Phe	Asn 645	Val	Glu	Thr	Tyr	Arg 650	Ala	Ala	Met	Met	Glu 655	Phe	
	Glu	Ile	Asn	Met 660	Ser	Glu	Met	Pro	Leu 665	Gly	Lys	Leu	Ser	Lys 670	Glu	Asn	
	Ile	Glu	Lys 675	Gly	Phe	Glu	Ala	Leu 680	Thr	Glu	Ile	Gln	Asn 685	Leu	Leu	Lys	
	Asp	Thr 690	Ala	Asp	Gln	Ala	Leu 695	Ala	Val	Arg	Glu	Ser 700	Leu	Ile	Val	Ala	
	Ala 705	Ser	Asn	Arg	Phe	Phe 710	Thr	Leu	Ile	Pro	Ser 715	Ile	His	Pro	His	Ile 720	
	Ile	Arg	Asp	Glu	Asp 725	Asp	Leu	Met	Ile	Lys 730	Ala	Lys	Met	Leu	Glu 735	Ala	
	Leu	Gln	Asp	Ile 740	Glu	Ile	Ala	Ser	Lys 745	Ile	Val	Gly	Phe	Asp 750	Ser	Asp	
	Ser	Asp	Glu 755	Ser	Leu	Asp	Asp	Lys 760	Tyr	Met	Lys	Leu	His 765	Cys	Asp	Ile	
	Thr	Pro 770	Leu	Ala	His	Asp	Ser 775	Glu	Asp	Tyr	Lys	Leu 780	Ile	Glu	Gln	Tyr	
	Leu 785	Leu	Asn	Thr	His	Ala 790	Pro	Thr	His	Lys	Asp 795	Trp	Ser	Leu	Glu	Leu 800	
	Glu	Glu	Val	Phe	Ser 805	Leu	Asp	Arg	Asp	Gly 810	Glu	Leu	Asn	Lys	Tyr 815	Ser	
	Arg	Tyr	Lys	Asn 820	Asn	Leu	His	Asn	Lys 825	Met	Leu	Leu	Trp	His 830	Gly	Ser	
	Arg	Leu	Thr 835	Asn	Phe	Val	Gly	Ile 840	Leu	Ser	Gln	Gly	Leu 845	Arg	Ile	Ala	
		Pro 850	Glu	Ala	Pro	Val	Thr 855	Gly	Tyr	Met	Phe	Gly 860	Lys	Gly	Leu	Tyr	
	865					870		Ser			875					880	
					885					890			•		895	Asp	
			•	900				Thr	905					910			
			915			•	-	920					925			Glu	
		. 930	-				935					940				Val	
	945					950					955					Val 960	
	Tyr	Asn	Thr	Ser	Gln 965	Val	Lys	Met	Gln	970	Leu	Leu	Lys	Val	Arg 975	Phe	

His His Lys Arg 980

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<211> 1010

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: fusion protein between APP N-terminal domain and GUS protein

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Met Ala Asn Lys Leu Lys Val Asp Glu Leu Arg Leu Lys Leu Ala Glu
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Arg Gly Leu Ser Thr Thr Gly Val Lys Ala Val Leu Val Glu Arg Leu 20 25 30

Glu Glu Ala Ile Ala Glu Asp Thr Lys Lys Glu Glu Ser Lys Ser Lys 35 40 45

Arg Lys Arg Asn Ser Ser Asn Asp Thr Tyr Glu Ser Asn Lys Leu Ile
50 60

Ala Ile Gly Glu Phe Arg Gly Met Ile Val Lys Glu Leu Arg Glu Glu 65 70 75 80

Ala Ile Lys Arg Gly Leu Asp Thr Thr Gly Thr Lys Lys Asp Leu Leu 85 90 95

Glu Arg Leu Cys Asn Asp Ala Asn Asn Val Ser Asn Ala Pro Val Lys
100 105 110

Ser Ser Asn Gly Thr Asp Glu Ala Glu Asp Asp Asn Asn Gly Phe Glu 115 120 125

Glu Glu Lys Lys Glu Glu Lys Ile Val Thr Ala Thr Lys Lys Gly Ala 130 135 140

Ala Val Leu Asp Gln Trp Ile Pro Asp Glu Ile Lys Ser Gln Tyr His 145 150 155 160

Val Leu Gln Arg Gly Asp Asp Val Tyr Asp Ala Ile Leu Asn Gln Thr 165 170 175

Asn Val Arg Asp Asn Asn Asn Lys Phe Phe Val Leu Gln Val Leu Glu 180 185 190

Ser Asp Ser Lys Lys Thr Tyr Met Val Tyr Thr Arg Trp Gly Arg Val 195 200 205

Gly Val Lys Gly Gln Ser Lys Leu Asp Gly Pro Tyr Asp Ser Trp Asp 210 215 220

Arg Ala Ile Glu Ile Phe Thr Asn Lys Phe Asn Asp Lys Thr Lys Asn 225 230 235 240

Tyr Trp Ser Asp Arg Lys Glu Phe Ile Pro His Pro Lys Ser Tyr Thr 245 250 255

Trp Leu Glu Met Asp Tyr Gly Lys Glu Glu Asn Asp Ser Pro Val Asn 260 265 270

Asn Asp Ile Pro Ser Ser Ser Ser Glu Val Lys Pro Glu Gln Ser Lys 275 280 285

Leu Asp Thr Arg Val Ala Lys Phe Ile Ser Leu Ile Cys Asn Val Ser Met Met Ala Gln His Met Met Glu Ile Gly Tyr Asn Ala Asn Lys Leu Pro Leu Gly Lys Ile Ser Lys Ser Thr Ile Ser Lys Gly Tyr Glu Val Leu Lys Arg Ile Ser Glu Val Ile Asp Arg Tyr Asp Arg Thr Arg Leu Glu Glu Leu Ser Gly Glu Phe Tyr Thr Val Ile Pro His Asp Phe Gly 360 Phe Lys Lys Met Ser Gln Phe Val Ile Asp Thr Pro Gln Lys Leu Lys Gln Lys Ile Glu Met Val Glu Ala Leu Gly Glu Ile Glu Leu Ala Thr 390 Lys Leu Leu Ser Val Asp Pro Met Val Arg Pro Val Glu Thr Pro Thr 410 405 Arg Glu Ile Lys Lys Leu Asp Gly Leu Trp Ala Phe Ser Leu Asp Arg 425. Glu Asn Cys Gly Ile Asp Gln Arg Trp Trp Glu Ser Ala Leu Gln Glu Ser Arg Ala Ile Ala Val Pro Gly Ser Phe Asn Asp Gln Phe Ala Asp 455 450 Ala Asp Ile Arg Asn Tyr Ala Gly Asn Val Trp Tyr Gln Arg Glu Val 475 Phe Ile Pro Lys Gly Trp Ala Gly Gln Arg Ile Val Leu Arg Phe Asp Ala Val Thr His Tyr Gly Lys Val Trp Val Asn Asn Gln Glu Val Met Glu His Gln Gly Gly Tyr Thr Pro Phe Glu Ala Asp Val Thr Pro Tyr Val Ile Ala Gly Lys Ser Val Arg Ile Thr Val Cys Val Asn Asn Glu Leu Asn Trp Gln Thr Ile Pro Pro Gly Met Val Ile Thr Asp Glu Asn 550 Gly Lys Lys Lys Gln Ser Tyr Phe His Asp Phe Phe Asn Tyr Ala Gly 570 Ile His Arg Ser Val Met Leu Tyr Thr Thr Pro Asn Thr Trp Val Asp 590 Asp Ile Thr Val Val Thr His Val Ala Gln Asp Cys Asn His Ala Ser 600 Val Asp Trp Gln Val Val Ala Asn Gly Asp Val Ser Val Glu Leu Arg 620 615

Asp Ala Asp Gln Gln Val Val Ala Thr Gly Gln Gly Thr Ser Gly Thr

- Leu Gln Val Val Asn Pro His Leu Trp Gln Pro Gly Glu Gly Tyr Leu 645 650 655
- Tyr Glu Leu Cys Val Thr Ala Lys Ser Gln Thr Glu Cys Asp Ile Tyr 660 665 670
- Pro Leu Arg Val Gly Ile Arg Ser Val Ala Val Lys Gly Glu Gln Phe 675 680 685
- Leu Ile Asn His Lys Pro Phe Tyr Phe Thr Gly Phe Gly Arg His Glu 690 695 700
- Asp Ala Asp Leu Arg Gly Lys Gly Phe Asp Asn Val Leu Met Val His 705 710 715 720
- Asp His Ala Leu Met Asp Trp Ile Gly Ala Asn Ser Tyr Arg Thr Ser 725 730 735
- His Tyr Pro Tyr Ala Glu Glu Met Leu Asp Trp Ala Asp Glu His Gly 740 745 750
- Ile Val Val Ile Asp Glu Thr Ala Ala Val Gly Phe Asn Leu Ser Leu 755 760 765
- Gly Ile Gly Phe Glu Ala Gly Asn Lys Pro Lys Glu Leu Tyr Ser Glu 770 780
- Glu Ala Val Asn Gly Glu Thr Gln Gln Ala His Leu Gln Ala Ile Lys 785 790 795 800
- Glu Leu Ile Ala Arg Asp Lys Asn His Pro Ser Val Val Met Trp Ser 805 810 815
- Ile Ala Asn Glu Pro Asp Thr Arg Pro Gln Gly Ala Arg Glu Tyr Phe 820 825 830
- Ala Pro Leu Ala Glu Ala Thr Arg Lys Leu Asp Pro Thr Arg Pro Ile 835 840 845
- Thr Cys Val Asn Val Met Phe Cys Asp Ala His Thr Asp Thr Ile Ser 850 855 860
- Asp Leu Phe Asp Val Leu Cys Leu Asn Arg Tyr Tyr Gly Trp Tyr Val 865 870 875 880
- Gln Ser Gly Asp Leu Glu Thr Ala Glu Lys Val Leu Glu Lys Glu Leu 885 890 895
- Leu Ala Trp Gln Glu Lys Leu His Gln Pro Ile Ile Ile Thr Glu Tyr 900 905 910
- Gly Val Asp Thr Leu Ala Gly Leu His Ser Met Tyr Thr Asp Met Trp 915 920 925
- Ser Glu Glu Tyr Gln Cys Ala Trp Leu Asp Met Tyr His Arg Val Phe 930 935 940
- Asp Arg Val Ser Ala Val Val Gly Glu Gln Val Trp Asn Phe Ala Asp 945 950 955 960
- Phe Ala Thr Ser Gln Gly Ile Leu Arg Val Gly Gly Asn Lys Lys Gly 965 970 975
- Ile Phe Thr Arg Asp Arg Lys Pro Lys Ser Ala Ala Phe Leu Leu Gln 980 985 990
- Lys Arg Trp Thr Gly Met Asn Phe Gly Glu Lys Pro Gln Gln Gly Gly

Lys Gln 1010

<210> 13

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: degenerated PCR primer

<400> 13

ccgaattcgg ntayatgtty ggnaa

25

<210> 14

<211> 25

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: degenerated PCR primer

<400> 14

ccgaattcac natrtaytcr ttrta

25

<210> 15

<211> 25

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence:oligonucleotide for use as PCR primer

<400> 15

gggaccatgt agtttatctt gacct

25

<210> 16

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: oligonucleotide for use in PCR

<400> 16

gacctcgtac cccaactctt ccccat

26

<210> 17

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: oligonucleotide for use in PCR

<400> 17 aagtcgacgc ggccgccaca cctagt	gcca ggtcag		36
<210> 18 <211> 24 <212> DNA <213> Artificial Sequence			·.
<220> <223> Description of Artific oligonucleotide for us			٠.
<400> 18 atctcaattg tacatttctc agga			24
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<220> <223> Description of Artific oligonucleotide for us			
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<400> 20 aggateetta gtgettgtag ttgaat			26
<210> 21 <211> 4947 <212> DNA <213> Artificial Sequence			
<220> <223> Description of Artific fusion with beta-glu	rial Sequence: APP curonidase gene	P promoter	
<220> <221> promoter <222> (1)(1961)			• .
<220> <221> misc_signal <222> (1962)(1964) <223> translation initiation	ı codon		
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atatgaatta tgtagctaac tagata	gata atcgtataac o	caattcatgt tagtatagta	a 120

tagtttaagt atgtattttg ggattacaag tgtggttggc atcaagacaa ggatggtgat 180

agcctttctc tgtaatttgg tttaagaaaa gtttttgcat tttatgtata aacgtgtttt 240 ttttttataa tttcaaattt caacaaaaaa caatttttt taataatgat tgaccactat 300 agacaattta aatgataaaa aaaaggggga atttttcaca atgttttgga gattagtcta 360 gattttttgt ccaaattttc cgattgtaag aattaagaag caatgaacat ttgtgttaag 420 cttaatgatt tgtactcaca atatctttta aatttaaaat tgttaaccaa aatatcctat 480 atattgtact tgtaatagaa atataaacta ttaaaaacaa cactttattc atataatata 540 agttaaaaca tatgtttttt ttagtatgtt ctaatcacac ctattaaaaa aagttgaagc 600 taaatgagcc aaaaagaaaa ataaagatag gggatgggga caggctgtaa tgttaggcgg 660 ttggtatatg aactgagaac atgtctgttg gttcggtcca tctacgccac tcaaccattt 720 ggctatgttt tctttttggc ttttgcatgt tctctctact tttcttcttt ggtcaaaatc 780 tctatctcgt cttttacatg gcttacccga atgttagttg tcatgtaaat ttggttatga 840 aaagatattt tatataaact ttatcgtata ttaatatcgt tatcatctaa ccatttttta 900 aaactaaact agaaccatcc agttttacaa gagtttttt ttttttttc taactaaata 960 atatttgaag tgtacaatat taacaatata tgggccaaat aatagtggaa accaaatcgt 1020 tagtcccact ttatgatggg cctgttgatt cttatgtctt cttcgtaagt tgtgattatg 1080 cagattacgg gctaataaac atgcatgttt agtttttact gtccaagtaa cgaaatttta 1140 tettttgggt tgttggeeca ttteatatat teeaaatgee aaateeagee eggetegaea 1200 cagcactgct cggctcaaca ctcgtatgcg gttggtagcc acttaagacc ttggtttgat 1260 taacatgtta cgaataattt gtgtcccttt ttcttcaagg agactaatct cttttaataa 1320 aaaagaattg tgtcattagt caacacaagt cctataatcc gtttacgtaa tttgtatgca 1380 cgtccttgga aaagtgagta gtggcgtacg ttacagccaa aaactatttg tatattttct 1440 ttcgttaaac aaccagcaaa attttcagaa aaatgttctt aaattataaa ttagtagtac 1500 attttaaaac atagagattt tttgtttctt ttaatagaag agttaaacct atgtacaaaa 1560 tttcaactcc ttttcaaagt atttgcctgt tactagattt ttaacctttt tttttttatc 1620 tttcatgatt ttctattgct tgccatcatc aatggtagga aataaatact attttaaaaa 1680 ggtcaggggt ggatttaaga atcaatccaa aagtttgggg tcttttggag attaaaaagt 1740 tatatgggaa atatccacaa atatgaacga gaacttttgt caaaaaaatt taaaataatt 1800 tttcaaaaag ccctaaagct ttcaagggaa gccatcgatg aagaagaaaa cgaagaagaa 1860 gactetteaa aegttegege gaacteaett etgaegaaaa eeataettee teagteteat 1920 tecettteeg aegaaetatt eteetgaaga agaagaegaa aatggegaae aageteaaag 1980 tcgacatggt ccgtcctgta gaaaccccaa cccgtgaaat caaaaaactc gacggcctgt 2040 gggcattcag tctggatcgc gaaaactgtg gaattgatca gcgttggtgg gaaagcgcgt 2100 tacaagaaag ccgggcaatt gctgtgccag gcagttttaa cgatcagttc gccgatgcag 2160

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